

Application No. 09/867,323

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended) An imaging apparatus comprising:
a first linear array of photosites, arranged in an array direction, and having a first spatial resolution along the array direction;
a second linear array of photosites, having a second spatial resolution, ~~different from the first spatial resolution,~~ along the array direction, three photosites in the first linear array corresponding to each one photosite in the second linear array; and
means for moving an original image relative to the linear arrays of photosites in a process direction perpendicular to the array direction.
2. (Original) The apparatus of claim 1, the first linear array of photosites having a first color filtering arrangement; and
the second linear array of photosites having a second color filtering arrangement, different from the first color filtering arrangement.
3. (Currently Amended) The apparatus of claim 2, the first color filtering arrangement being white, and the second color filtering arrangement being including a primary color.
4. (Currently Amended) The apparatus of claim 2, the first color filtering arrangement being green, and the second color filtering arrangement ~~being~~ including a primary color.

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5. (Original) The apparatus of claim 1, the first linear array of photosites having an effective length n along a process direction perpendicular to the array direction, and the second linear array of photosites having an effective length along the process direction equal to n .

6. (Original) The apparatus of claim 1, the first linear array of photosites having an effective length n along a process direction perpendicular to the array direction, and the second linear array of photosites having an effective length along the process direction greater than n .

7. (Original) The apparatus of claim 1, the first linear array of photosites having an effective length n along a process direction perpendicular to the array direction, and the second linear array of photosites having an effective length along the process direction less than n .

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Currently Amended) The apparatus of claim 1, ~~three photosites in the first linear array corresponding to each one photosite in the second linear array,~~ the first linear array having an effective length n along a process direction perpendicular to the array direction, and the second linear array having an effective length along the process direction of about $3n$.

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12. (Original) The apparatus of claim 1, further comprising a third linear array of photosites, the third linear array of photosites having a spatial resolution along the array direction equal to the spatial resolution of the second linear array of photosites.

13. (Original) The apparatus of claim 12, the third linear array of photosites having a third color filtering arrangement, different from the second color filtering arrangement.

14. (Original) The apparatus of claim 13, the first color filtering arrangement being green, the second color filtering arrangement being a first non-green primary color, the third color filtering arrangement being a second non-green primary color different from the first non-green primary color.

15. (Original) The apparatus of claim 13, the first color filtering arrangement being white, the second color filtering arrangement being a first non-green primary color, the third color filtering arrangement being a second non-green primary color different from the first non-green primary color.

16. (Original) The apparatus of claim 1, wherein the first linear array is associated with a first CCD, and the second linear array is associated with a second CCD.

17. (Original) The apparatus of claim 1, wherein a plurality of photosites in the first linear array and a photosite in the second linear array are associated with a single transfer circuit connected to an output line.

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18. (New) An imaging apparatus comprising:

a set of cells of photosites arranged in a linear array along an array direction, each cell defining three small photosites, arranged along the array direction, and each cell defining at least two large photosites, arranged perpendicular to the array direction; and

means for moving an original image relative to the linear arrays of photosites in a process direction perpendicular to the array direction.

19. (New) The apparatus of claim 18, the small photosites in each cell being filtered to admit white light and at least one of the two large photosites in each cell being filtered to admit a primary color.

20. (New) The apparatus of claim 18, each small photosite in each cell having a length perpendicular to the array direction of n , and each large photosite in each cell having a length perpendicular to the array direction of less than n .

21. (New) The apparatus of claim 18, each cell defining three large photosites, filtered respectively to admit substantially red, green, and blue light.

22. (New) The apparatus of claim 18, at least one small photosite and one large photosite in each cell being associated with a common reset node.